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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KN/11/2020-2021

Date:07.10.2020

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample : : Cement (ACC 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: :September-2020
Date of Testing 05.10.2020 to 07.10.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Authorised Signatory

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Job No.: CQCE/BBMP/KN/11/2020-2021 Date 07.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Date of Testing 07.10.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	58	5.80	5.80	94.2	90-100
2.36	120	12.00	17.80	82.2	75-100
1.18	165	16.50	34.30	65.7	55-90
600 Micron	263	26.30	60.60	39.4	35-59
300 Micron	157	15.70	76.30	23.7	8-30
150 Micron	150	15.00	91.30	8.7	0-10

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Job No.: CQCE/BBMP/KN/11/2020-2021 Date 07.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Date of Testing 07.10.2020

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	240	1.60	1.60	98.40	95-100
20	8532	56.88	58.48	41.52	30-70
10	3215	21.43	79.91	20.09	10-35
4.75	2748	18.32	98.23	1.77	0-5

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Job No.: CQCE/BBMP/KN/11/2020-2021

Date 07.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Date of Testing 07.10.2020

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2456	49.1	53.1	46.9	25-55
4.75	2011	40.2	93.4	6.6	0-10

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Job No.: CQCE/BBMP/KN/11/2020-2021 Date 07.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Date of Testing 07.10.2020

Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	32	3.20	5.00	95.0	70-100
600 Micron	87	8.70	13.70	86.3	40-100
300 Micron	250	25.00	38.70	61.3	5-70
150 Micron	486	48.60	87.30	12.7	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date 12.10.2020

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of Work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 12.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	509	612	1.20	15
2	TMT	10	0.618	526	638	1.21	18
3	TMT	12	0.888	548	652	1.19	20

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Date: 05.02.2021

Job No.: CQCE/BBMP/KN/11/2020-2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Contractor : : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of Work : : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 05.02.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.372	2338.99	1.62	0.960	25.60	13.04	14.08	13.52	16.90
2	50.00	84.00	0.391	2370.65	1.68	0.960	26.30	13.39	14.47	13.89	17.36
3	50.00	88.00	0.413	2389.06	1.76	0.965	27.80	14.16	15.29	14.76	18.44

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Job No.: CQCE/BBMP/KN/11/2020-2021

Date: 08.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	08.12.2020	8.025	504.7	22.43
2	01.12.2020	08.12.2020	8.146	515.6	22.92
3	01.12.2020	08.12.2020	8.132	528.9	23.51

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 29.12.2020

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of the work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	29.12.2020	8.189	708.9	31.51
2	01.12.2020	29.12.2020	8.124	724.6	32.20
3	01.12.2020	29.12.2020	8.134	735.9	32.71

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Date: 08.12.2020

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	: **Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	08.12.2020	8.197	505.5	22.47
2	01.12.2020	08.12.2020	8.122	521.3	23.17
3	01.12.2020	08.12.2020	8.143	537.4	23.88

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Job No.: CQCE/BBMP/KN/11/2020-2021

Date: 29.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	29.12.2020	8.164	720.0	32.00
2	01.12.2020	29.12.2020	8.127	733.9	32.62
3	01.12.2020	29.12.2020	8.031	741.2	32.94

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Date: 08.12.2020

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	: **Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	08.12.2020	8.192	482.3	21.44
2	01.12.2020	08.12.2020	8.134	494.6	21.98
3	01.12.2020	08.12.2020	8.154	500.1	22.23

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Date: 29.12.2020

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.12.2020	29.12.2020	8.155	712.8	31.68
2	01.12.2020	29.12.2020	8.120	734.5	32.64
3	01.12.2020	29.12.2020	8.170	740.0	32.89

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Date: 27.01.2021

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of the work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	27.01.2021	8.152	502.1	22.32
2	20.01.2021	27.01.2021	8.134	514.4	22.86
3	20.01.2021	27.01.2021	8.187	532.3	23.66

Note:

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Asst. Executive Engineer
Yelahanka Division
Yelahanka Zone
BBMP, Bangalore-92

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 17.02.2021

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	17.02.2021	8.021	715.4	31.80
2	20.01.2021	17.02.2021	8.137	728.9	32.40
3	20.01.2021	17.02.2021	8.169	732.6	32.56

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Job No.: CQCE/BBMP/KN/11/2020-2021

Date: 27.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	27.01.2021	8.147	507.9	22.57
2	20.01.2021	27.01.2021	8.124	524.6	23.32
3	20.01.2021	27.01.2021	8.192	532.1	23.65

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	17.02.2021	8.023	709.6	31.54
2	20.01.2021	17.02.2021	8.157	711.5	31.62
3	20.01.2021	17.02.2021	8.169	723.4	32.15

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Date: 27.01.2021

Job No.: CQCE/BBMP/KN/11/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.

Agency : **Sri. K Narayanaswamy,** Contractor, Bangalore.

Name of the work : Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	27.01.2021	8.127	480.0	21.33
2	20.01.2021	27.01.2021	8.162	490.0	21.78
3	20.01.2021	27.01.2021	8.134	500.0	22.22

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Job No.: CQCE/BBMP/KN/11/2020-2021 Date: 17.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	17.02.2021	8.058	702.3	31.21
2	20.01.2021	17.02.2021	8.021	714.8	31.77
3	20.01.2021	17.02.2021	8.036	729.6	32.43

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Job No.: CQCE/BBMP/KN/11/2020-2021

Date: 12.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Project Yelahanka Division, BBMP, Bangalore.
Agency	**: Sri. K Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Development of Vidyaranyapura Burial Ground Ward No.11, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2021	12.03.2021	8.097	486.0	21.60
2	05.03.2021	12.03.2021	8.064	496.0	22.04
3	05.03.2021	12.03.2021	8.122	506.0	22.49

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